

0590 1031





OIPE

RAW SEQUENCE LISTING DATE: 11/19/2002 PATENT APPLICATION: US/10/084,839 TIME: 20:11:01

Input Set : N:\AMC\06666.ST25.txt

Output Set: N:\CRF4\11192002\J084839.raw

```
3 <110> APPLICANT: Third Wave Technologies
 4
         Allawi, Hatim
 5
         Argue, Brad T.
 6
         Bartholomay, Christian T.
 7
         Chehak, LuAnne
 8
         Curtis, Michelle L.
 9
         Eis, Peggy S.
10
         Hall, Jeff G.
11
         Ip, Hon S.
         Ji, Lin
12
13
         Kaiser, Michael
14
         Kwiatkowski, Jr., Robert W.
15
         Lukowiak, Andrew A.
16
         Lyamichev, Victor
                                                        ENTERED
17
         Lymaicheva, Natalie E.
18
         Ma, WuPo
19
         Neri, Bruce P.
         Olson, Sarah M.
20
         Olson-Munoz, Marilyn C.
21
22
         Schaefer, James J.
23
         Skrzypczynski, Zbigniew
24
         Takova, Tsetska Y.
25
         Thompson, Lisa C.
         Vedvik, Kevin L.
28 <120> TITLE OF INVENTION: RNA Detection Assays
30 <130> FILE REFERENCE: FORS-06666
32 <140> CURRENT APPLICATION NUMBER: 10/084,839
33 <141> CURRENT FILING DATE: 2002-02-26
35 <160> NUMBER OF SEQ ID NOS: 4004
37 <170> SOFTWARE: PatentIn version 3.1
39 <210> SEQ ID NO: 1
40 <211> LENGTH: 834
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54 Leu Thr Thr Ser Arg Gly Glu Pro Val Gln Ala Val Tyr Gly Phe Ala
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Output Set: N:\CRF4\11192002\J084839.raw

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| 167 | | | | | 485 | | | | | 490 | | | | | 495 | |
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| 174 | Lys | Arg | Ser | Thr | Ser | Ala | Ala | Val | Leu | Glu | Ala | Leu | Arg | Glu | Ala | His |
| 175 | | | 515 | | | | | 520 | | | | | 525 | | | |
| 178 | Pro | Ile | Val | Glu | Lys | Ile | Leu | Gln | His | Arg | Glu | Leu | Thr | Lys | Leu | Lys |
| 179 | | 530 | | | | | 535 | | | | | 540 | | | | |
| 182 | Asn | Thr | Tyr | Val | Asp | | Leu | Pro | Ser | Leu | | His | Pro | Arg | Thr | |
| | 545 | | | | | 550 | | | | | 555 | | • | | | 560 |
| 186 | Arg | Leu | His | Thr | _ | Phe | Asn | Gln | Thr | | Thr | Ala | Thr | Gly | | Leu |
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| 190 | Ser | Ser | Ser | | Pro | Asn | Leu | Gln | | Ile | Pro | Val | Arg | | Pro | Leu |
| 191 | | | | 580 | | | | | 585 | _ | | | | 590 | | _ |
| | Gly | Gln | | Ile | Arg | Arg | Ala | | Val | Ala | Glu | Ala | | Trp | Ala | Leu |
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| | Val | | Leu | Asp | Tyr | Ser | | Ile | Glu | Leu | Arg | | Leu | Ala | His | Leu |
| 199 | _ | 610 | _ | | _ | _ | 615 | _0 | ** 1 | D 1 | 61 | 620 | ~ 1 | T | 70 | T1 - |
| | Ser | GLY | Asp | Glu | Asn | | TTE | Arg | vaı | Pne | | GIU | GIY | гàг | Asp | |
| | 625 | m1 | O1 | m1 | 70 71 - | 630 | m | M = L | Dh. | C1 | 635 | Dwa | Dwa | C1 | 7.1. | 640 |
| | His | Thr | GIN | Thr | 645 | ser | irp | | Pne | | vaı | PIO | PLO | GIU | 655 | vaı |
| 207 | Asp | Dxo | T 011 | Mot | | 7 ~ ~ | 711 | | | | 1721 | Λen | Dha | Glv | | T.Ou |
| 210 | ASP | PIO | neu | 660 | ALG | Arg | нта | міа | 665 | 1111 | vaı | ASII | riie | 670 | Val | пец |
| | Tyr | Gly | Mot | | Δla | Hie | Ara | T.e.11 | | Gln | Glu | I.e.i | Ala | | Pro | Tvr |
| | ıyı | | 675 | Jei | ALG | 1113 | 1119 | 680 | DCI | 0111 | 014 | ЦСС | 685 | | 120 | -] - |
| | Glu | | | Val | Ala | Phe | Tle | | Ara | Tvr | Phe | Gln | | Phe | Pro | Lvs |
| 219 | | 690 | | | | | 695 | | 5 | -1- | | 700 | | | | |
| | Val | | Ala | Trp | Ile | Glu | | Thr | Leu | Glu | Glu | Gly | Arg | Lys | Arg | Gly |
| | 705 | | | • | | 710 | - | | | | 715 | - | _ | - | _ | 720 |
| 226 | Tyr | Val | Glu | Thr | Leu | Phe | Gly | Arg | Arg | Arg | Tyr | Val | Pro | Asp | Leu | Asn |
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| 234 | Met | Pro | Val | Gln | Gly | Thr | Ala | Ala | Asp | Leu | Met | Lys | Leu | Ala | Met | Val |
| 235 | | | 755 | | | | | 760 | | | | | 765 | | | |
| 238 | Lys | Leu | Phe | Pro | Arg | Leu | Arg | Glu | Met | Gly | Ala | | Met | Leu | Leu | Gln |
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| | Val | His | Asp | Glu | Leu | | Leu | Glu | Ala | Pro | | Ala | Arg | Ala | Glu | |
| | 785 | | | | | 790 | | | | | 795 | | | | | 800 |
| | Val | Ala | Ala | Leu | | Lys | Glu | Ala | Met | | Lys | Ala | Tyr | Pro | | Ala |
| 247 | | | | | 805 | | | | | 810 | | _ | _ | _ | 815 | |
| | Val | Pro | Leu | | Val | Glu | Val | Gly | | Gly | Glu | Asp | Trp | | Ser | Ala |
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| | Lys | - | _ | | _ | | | | | | | | | | | |
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| 264 | <223> OTHER INFORMATION: Synthetic | | | | | | | | | | | | | | | |
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| 272 | Leu | Val | Asp | Gly | His | His | Leu | Ala | Tyr | Arg | Thr | Phe | His | Ala | Leu | Lys |
| 273 | | | | 20 | | | | | 25 | | | | | 30 | | |
| 276 | Gly | Leu | Thr | Thr | Ser | Arg | Gly | Glu | Pro | Val | Gln | Ala | Val | Tyr | Gly | Phe |
| 277 | | | 35 | | • | | | 40 | | | | | 45 | | | |
| 280 | Ala | Lys | Ser | Leu | Leu | Lys | Ala | Leu | Lys | Glu | Asp | Gly | Asp | Ala | Val | Ile |
| 281 | | 50 | | | | | 55 | | | | | 60 | | | | |
| 284 | Val | Val | Phe | Asp | Ala | Lys | Ala | Pro | Ser | Phe | Arg | His | Glu | Ala | Tyr | Gly |
| 285 | 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| 288 | Gly | Tyr | Lys | Ala | Gly | Arg | Ala | Pro | Thr | Pro | Glu | Asp | Phe | Pro | Arg | Gln |
| 289 | | | | | 85 | | | | | 90 | | | | | 95 | |
| 292 | Leu | Ala | Leu | Ile | Lys | Glu | Leu | Val | Asp | Leu | Leu | Gly | Leu | Ala | Arg | Leu |
| 293 | | | | 100 | | | | | 105 | | | | | 110 | | |
| 296 | Glu | Val | Pro | Gly | Tyr | Glu | Ala | Asp | Asp | Val | Leu | Ala | Ser | Leu | Ala | Lys |
| 297 | | | 115 | | | | | 120 | | | | | 125 | | | |
| 300 | Lys | Ala | Glu | Lys | Glu | Gly | Tyr | Glu | Val | Arg | Ile | Leu | Thr | Ala | Asp | Lys |
| 301 | | 130 | | | | | 135 | | | | | 140 | | | | |
| 304 | Asp | Leu | Tyr | Gln | Leu | Leu | Ser | Asp | Arg | Ile | His | Val | Leu | His | Pro | Glu |
| 305 | 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| 308 | Gly | Tyr | Leu | Ile | Thr | Pro | Ala | Trp | Leu | Trp | Glu | Lys | Tyr | Gly | Leu | Arg |
| 309 | | | | | 165 | | | | | 170 | | | | | 175 | |
| 312 | Pro | Asp | Gln | Trp | Ala | Asp | Tyr | Arg | Ala | Leu | Thr | Gly | Asp | Glu | Ser | Asp |
| 313 | | | | 180 | | | | | 185 | | | | | 190 | | |
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| 317 | | | 195 | | | | | 200 | | | | | 205 | | | |
| 320 | Leu | Glu | Glu | Trp | Gly | Ser | | Glu | Ala | Leu | Leu | Lys | Asn | Leu | Asp | Arg |
| 321 | | 210 | | | | | 215 | | | | | 220 | | | | |
| 324 | Leu | Lys | Pro | Ala | Ile | | Glu | Lys | Ile | Leu | Ala | His | Met | Asp | Asp | |
| - | 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| 328 | Lys | Leu | Ser | Trp | Asp | Leu | Ala | Lys | Val | | Thr | Asp | Leu | Pro | | Glu |
| 329 | | | | | 245 | | | | | 250 | | | | | 255 | |
| | Val | Asp | | | Lys | Arg | Arg | | | | Arg | Glu | | | | Ala |
| 333 | | | | 260 | | | | | 265 | | | | | 270 | | |
| 336 | Phe | Leu | Glu | Arg | Leu | Glu | Phe | | Ser | Leu | Leu | His | | Phe | Gly | Leu |
| 337 | | | 275 | | | | | 280 | | | | | 285 | | | |
| 340 | Leu | Glu | Ser | Pro | Lys | Ala | Leu | Glu | Glu | Ala | Pro | Trp | Pro | Pro | Pro | Glu |
| 341 | | 290 | | | | | 295 | | | | | 300 | | | | |
| 344 | Gly | Ala | Phe | Val | Gly | Phe | Val | Leu | Ser | Arg | Lys | Glu | Pro | Met | Trp | Ala |
| | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| 348 | Asp | Leu | Leu | Ala | Leu | Ala | Ala | Ala | Arg | Gly | Gly | Arg | Val | His | Arg | Ala |
| 349 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 352 | Ala | Asp | Pro | Leu | Ala | Gly | Leu | Lys | Asp | Leu | Lys | Glu | Val | Arg | Gly | Leu |
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| 36 | | 370 | _ | _ | | | 375 | | | | | 380 | | | | |
| | 4 Asn 5 385 | | Thr | Pro | Glu | Gly 390 | Val | Ala | Arg | Arg | Tyr 395 | Gly | Gly | Glu | Trp | Thr 400 |
| 36 36 | 8 Glu 9 | Asp | Ala | Ala | His 405 | Arg | Ala | Leu | Leu | Ser 410 | Glu | Arg | Leu | His | Arg 415 | Asn |
| 37 37 | 2 Leu 3 | Leu | Lys | Arg 420 | Leu | Gľu | Gly | Glu | Glu 425 | Lys | Leu | Leu | Trp | Leu 430 | Tyr | His |
| 37 37 | 6 Glu 7 | Val | Glu 435 | Lys | Pro | Leu | Ser | Arg 440 | Val | Leu | Ala | His | Met 445 | Glu | Ala | Thr |
| 38 38 | 0 Gly | Val 450 | Arg | Arg | Asp | Val | Ala 455 | Tyr | Leu | Gln | Ala | Leu 460 | Ser | Leu | Glu | Leu |
| 38 | 4 Ala 5 465 | | | | | 470 | | | | | 475 | | | | | 480 |
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| 39 | | | | 500 | | | | | 505 | | | | | 510 | | |
| 39 39 | 6 Arg | Ser | Thr 515 | Ser | Ala | Ala | Val | Leu 520 | Glu | Ala | Leu | Arg | Glu 525 | Ala | His | Pro |
| 40 | | 530 | | _ | | | 535 | | | | | 540 | | | | |
| 40 | 4 Thr 5 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| 40 | | | | _ | 565 | | | | | 570 | | | | | 575 | |
| 41 | | | | 580 | | | | | 585 | | | | | 590 | | |
| 41 | | | 595 | | | | | 600 | | | | | 605 | | | |
| 42 42 | 0 Ala 1 | Leu 610 | Asp | Tyr | Ser | Gln | Ile 615 | Glu | Leu | Arg | Val | Leu 620 | Ala | His | Leu | Ser |
| | 4 Gly | | Glu | Asn | Leu | Ile 630 | Arg | Val | Phe | Gln | Glu 635 | Gly | Lys | Asp | Ile | His 640 |
| 42 | 8 Thr | | | | 645 | | | | | 650 | | | | | 655 | |
| 43 43 | 2 Pro | Leu | Met | Arg 660 | Arg | Ala | Ala | Lys | Thr 665 | Val | Asn | Phe | Gly | Val 670 | Leu | Tyr |
| 43 43 | 6 Gly | Met | Ser 675 | Ala | His | Arg | Leu | Ser 680 | Gln | Glu | Leu | Ala | Ile 685 | Pro | Tyr | Glu |
| | 0 Glu | Ala 690 | Val | Ala | Phe | Ile | Glu 695 | Arg | Tyr | Phe | Gln | Ser 700 | Phe | Pro | Lys | Val |
| 44 | 4 Arg | Ala | Trp | Ile | Glu | Lys 710 | Thr | Leu | Glu | Glu | Gly 715 | Arg | Lys | Arg | Gly | Tyr 720 |
| | 8 Val | | Thr | Leu | Phe 725 | | Arg | Arg | Arg | Tyr 730 | Val | Pro | Asp | Leu | Asn 735 | Ala |
| | | | | | | | | | | | | | | | | |





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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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